

October 10, 2022

978203

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency
DWPC Marion Region
2309 West Main Street
Marion, Illinois 62959

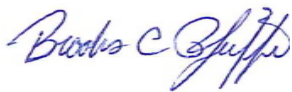
**Discharge Monitoring Report for September 2022
(Permit No. 2020-EP-65299)
Pump and Treat System
Crab Orchard National Wildlife Refuge, Marion, Illinois**

Dear Sir or Madam:

AECOM, on behalf of the United States Fish and Wildlife Service (USFWS), is submitting the attached September 2022 Discharge Monitoring Report (DMR) for the subject treatment system located on the Crab Orchard National Wildlife Refuge (CONWR) in Marion, Illinois. This DMR has been prepared as required by the Permit to Construct, Own, and Operate (Permit No. 2020-EP-65299), dated July 10, 2020, for discharge to the City of Marion, IL publicly owned treatment works (POTW). Discharge of the treated effluent of the Pump and Treat System to the Marion POTW commenced on May 4, 2011. Within the month of September 2022, the system experienced a technical issue and flow data was lost for September 23rd – September 25th. Aside from this issue, the system operated nominally for the duration of the month. The enclosed discharge summary was used to prepare the DMR.

Please contact Mr. Brooks Pfeiffer (314.429.0100) with any questions.

Sincerely,



Brooks Pfeiffer
Senior Technician
AECOM

encl: DMR
Discharge Summary

cc: *(via electronic mail)*
Viral Patel, USEPA
Paul Lake, IEPA
Leanne Moore, USFWS Project Coordinator
Chuck Beasley, USFWS
Tim Rodeffer, USFWS
Brent Cain, City of Marion POTW

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

Form Approved

OMB No. 2040-0004

NAME USFWS
Crab Orchard National Wildlife
Refuge
ADDRESS 8588 Route 148
Marion, IL 62599

DISCHARGE MONITORING REPORT (DMR)

2020-EP-65299	to POTW
PERMIT NUMBER	DISCHARGE NUMBER

FACILITY Crab Orchard National Wildlife
LOCATION Refuge Superfund Site

MONITORING PERIOD									
FROM		YEAR	MO	DAY	TO		YEAR	MO	DAY
		2022	09	01			2022	09	30

NOTE: Read instructions before

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow, Total Daily Volume	SAMPLE	5,336	7,609	gpd					0	Daily	Cont
	PERMIT REQUIREMENT	7,200	14,400							Daily	Cont
Flow, Daily Average Rate	SAMPLE	3.67	4.29	gpm					0	Daily	Cont
	PERMIT REQUIREMENT	Report	Report							Daily	Cont
pH, Standard Units	SAMPLE				7.27		7.27	s.u.	0	1/mo	Grab
	PERMIT REQUIREMENT				5.5		9.5			1/mo	Grab
Polychlorinated Biphenyls, total	SAMPLE				< 0.00044	< 0.00044	< 0.00044	mg/L	0	1/mo	Grab
	PERMIT REQUIREMENT						0.003			1/mo	Grab
	SAMPLE										
	PERMIT REQUIREMENT										
	SAMPLE										
	PERMIT REQUIREMENT										
	SAMPLE										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
Brooks C. Pfeiffer		314	429.0100	2022	10	10
TYPED OR PRINTED		AREA	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Operated under the supervision of Brooks Pfeiffer, Class K Operator - Crab Orchard Pump and Treat System

Crab Orchard National Wildlife Refuge
Permanent Pump and Treat System
Discharge Summary - September 2022
AECOM Project Number: 60669120

September 2022	Flow (gpm)	Totalizer (gal)	Total Flow (gpd)	Effluent		Comments
				Total PCBs (mg/L)	pH (s.u.)	
9/1/2022	3.41	18,766,593	4,936			
9/2/2022	3.40	18,771,529	4,903			
9/3/2022	3.39	18,776,432	4,875			
9/4/2022	3.39	18,781,307	4,873			
9/5/2022	3.40	18,786,180	4,929			
9/6/2022	3.37	18,791,109	4,861			
9/7/2022	3.17	18,795,970	4,565			
9/8/2022	3.23	18,800,535	4,665			
9/9/2022	3.20	18,805,200	4,613			
9/10/2022	3.18	18,809,813	4,557			
9/11/2022	3.15	18,814,370	4,539			
9/12/2022	3.18	18,818,909	4,557			
9/13/2022	3.13	18,823,466	4,517			
9/14/2022	3.97	18,827,983	5,720	< 0.00044	7.27	
9/15/2022	4.22	18,833,703	6,064			
9/16/2022	4.16	18,839,767	6,003			
9/17/2022	4.10	18,845,770	5,889			
9/18/2022	4.00	18,851,659	5,757			
9/19/2022	3.89	18,857,416	5,601			
9/20/2022	3.83	18,863,017	5,512			
9/21/2022	3.76	18,868,529	5,404			
9/22/2022	3.77	18,873,933	5,433			
9/23/2022						missing data due to technical issue
9/24/2022						missing data due to technical issue
9/25/2022						missing data due to technical issue
9/26/2022	4.29	18,887,120	6,161			
9/27/2022	3.87	18,893,281	5,579			
9/28/2022	4.03	18,898,860	5,813			
9/29/2022	4.27	18,904,673	6,147			
9/30/2022	4.22	18,910,820	7,609			
Data Summary	Flow (gpm)	Totalizer (gal)	Total Flow (gpd)	Effluent		Comments
				Total PCBs (mg/L)	pH (s.u.)	
Minimum	3.13	18,766,593	4,517	< 0.00044	7.27	
Average	3.67	18,833,257	5,336	< 0.00044	7.27	
Maximum	4.29	18,910,820	7,609	< 0.00044	7.27	

Notes:

gpm - gallons per minute
gal - gallons
gpd - gallons per day
PCBs - polychlorinated biphenyls
mg/L - milligrams per liter
< - analyte not detected
s.u. - standard units